

Введите размерность таблицы:  Подтвердить

Initial table:

	α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο	π	ρ	σ	τ	υ	φ	χ	ψ	ω
α	1	0.5	0.1	0.6	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.8	0.6	0.3	0.9	0.4	0.8	0.9	0.3	0.7	0.4	0.1	0.2	0.1
β	0.5	1	0.1	0.5	0.7	0.1	0.2	0.4	0.1	0.3	0.1	0.5	0.2	0.3	0.3	0.1	0.5	0.4	0.1	0.2	0.2	0.1	0.3	0.1
γ	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.6	0.5	0.7	0.1	0.1	0.2	0.1	0.1	0.1	0.7	0.4	0.7	0.6	0.3
δ	0.6	0.5	0.1	1	0.7	0.3	0.1	0.2	0.1	0.1	0.1	0.5	0.2	0.2	0.7	0.1	0.6	0.7	0.1	0.5	0.3	0.1	0.1	0.2
ε	0.1	0.7	0.1	0.7	1	0.3	0.1	0.4	0.1	0.4	0.1	0.1	0.2	0.8	0.3	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.6	0.8
ζ	0.1	0.1	0.1	0.3	0.3	1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.1
η	0.1	0.2	0.1	0.1	0.1	0.2	1	0.1	0.4	0.1	0.1	0.7	0.2	0.1	0.4	0.8	0.2	0.2	0.1	0.6	0.1	0.1	0.2	0.2
θ	0.5	0.4	0.1	0.2	0.4	0.1	0.1	1	0.1	0.1	0.1	0.2	0.2	0.1	0.7	0.1	0.6	0.7	0.1	0.3	0.1	0.1	0.2	0.2
ι	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.1	1	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.8	0.2	0.2	0.1	0.2	0.2
κ	0.1	0.3	0.2	0.1	0.4	0.1	0.1	0.1	0.2	1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.4	0.1	0.3
λ	0.1	0.1	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1	0.1	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.6	0.1	0.4	0.1	0.1
μ	0.8	0.5	0.5	0.5	0.1	0.1	0.7	0.2	0.2	0.1	0.1	1	0.5	0.1	0.6	0.6	0.7	0.5	0.3	0.5	0.2	0.1	0.2	0.3
ν	0.6	0.2	0.7	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.6	0.5	1	0.1	0.2	0.3	0.5	0.4	0.2	0.9	0.2	0.1	0.2	0.5
ξ	0.3	0.3	0.1	0.2	0.8	0.3	0.1	0.1	0.1	0.2	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
ο	0.9	0.3	0.1	0.7	0.3	0.1	0.4	0.7	0.1	0.1	0.1	0.6	0.2	0.1	1	0.2	0.7	0.9	0.1	0.5	0.4	0.1	0.2	0.2
π	0.4	0.1	0.2	0.1	0.1	0.1	0.8	0.1	0.2	0.2	0.1	0.6	0.3	0.1	0.2	1	0.2	0.2	0.2	0.7	0.2	0.1	0.4	0.2
ρ	0.8	0.5	0.1	0.6	0.1	0.1	0.2	0.6	0.2	0.2	0.1	0.7	0.5	0.1	0.7	0.2	1	0.7	0.3	0.2	0.6	0.1	0.4	0.2
σ	0.9	0.4	0.1	0.7	0.2	0.1	0.2	0.7	0.1	0.1	0.1	0.5	0.4	0.1	0.9	0.2	0.7	1	0.1	0.6	0.6	0.1	0.3	0.2
τ	0.3	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.8	0.2	0.1	0.3	0.2	0.1	0.1	0.2	0.3	0.1	1	0.2	0.2	0.1	0.2	0.1
υ	0.7	0.2	0.7	0.5	0.2	0.2	0.6	0.3	0.2	0.2	0.6	0.5	0.9	0.1	0.5	0.7	0.2	0.6	0.2	1	0.3	0.1	0.3	0.4
φ	0.4	0.2	0.4	0.3	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.4	0.2	0.6	0.6	0.2	0.3	1	0.1	0.6	0.2
χ	0.1	0.1	0.7	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	0.1	0.1
ψ	0.2	0.3	0.6	0.1	0.6	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.4	0.4	0.3	0.2	0.3	0.6	0.1	1	0.2
ω	0.1	0.1	0.3	0.2	0.8	0.1	0.2	0.2	0.2	0.3	0.1	0.3	0.5	0.1	0.2	0.2	0.2	0.2	0.1	0.4	0.2	0.1	0.2	1

a = 0.55

R (1):

	α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο	π	ρ	σ	τ	υ	φ	χ	ψ	ω
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$\alpha$	1	0.5	0.7	0.7	0.6	0.3	0.7	0.7	0.3	0.3	0.6	0.8	0.7	0.3	0.9	0.7	0.8	0.9	0.3	0.7	0.6	0.1	0.4	0.5
$\beta$	0.5	1	0.5	0.7	0.7	0.3	0.5	0.5	0.2	0.4	0.2	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.3	0.5	0.5	0.3	0.6	0.7
$\gamma$	0.7	0.5	1	0.5	0.6	0.2	0.6	0.3	0.2	0.4	0.6	0.5	0.7	0.2	0.5	0.7	0.5	0.6	0.3	0.7	0.6	0.7	0.6	0.5
$\delta$	0.7	0.7	0.5	1	0.7	0.3	0.5	0.7	0.2	0.4	0.5	0.6	0.6	0.7	0.7	0.5	0.7	0.7	0.3	0.6	0.6	0.1	0.6	0.7
$\varepsilon$	0.6	0.7	0.6	0.7	1	0.3	0.3	0.4	0.2	0.4	0.2	0.5	0.5	0.8	0.7	0.4	0.6	0.7	0.3	0.5	0.6	0.4	0.6	0.8
$\zeta$	0.3	0.3	0.2	0.3	0.3	1	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.1	0.3	0.3
$\eta$	0.7	0.5	0.6	0.5	0.3	0.2	1	0.4	0.4	0.2	0.6	0.7	0.6	0.2	0.6	0.8	0.7	0.6	0.4	0.7	0.4	0.1	0.4	0.4
$\theta$	0.7	0.5	0.3	0.7	0.4	0.3	0.4	1	0.2	0.4	0.3	0.6	0.5	0.4	0.7	0.4	0.7	0.7	0.3	0.6	0.6	0.1	0.4	0.4
$\iota$	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.2	1	0.2	0.2	0.4	0.2	0.2	0.4	0.4	0.3	0.2	0.8	0.4	0.2	0.2	0.2	0.2
$\kappa$	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.4	0.2	1	0.4	0.3	0.3	0.4	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.4	0.4	0.4
$\lambda$	0.6	0.2	0.6	0.5	0.2	0.2	0.6	0.3	0.2	0.4	1	0.5	0.6	0.2	0.5	0.6	0.5	0.6	0.2	0.6	0.4	0.6	0.6	0.5
$\mu$	0.8	0.5	0.5	0.6	0.5	0.3	0.7	0.6	0.4	0.3	0.5	1	0.6	0.3	0.8	0.7	0.8	0.8	0.3	0.7	0.6	0.5	0.5	0.5
$\nu$	0.7	0.5	0.7	0.6	0.5	0.2	0.6	0.5	0.2	0.3	0.6	0.6	1	0.3	0.6	0.7	0.6	0.6	0.3	0.9	0.5	0.7	0.6	0.5
$\xi$	0.3	0.7	0.2	0.7	0.8	0.3	0.2	0.4	0.2	0.4	0.2	0.3	0.3	1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.6	0.8
$\omicron$	0.9	0.5	0.5	0.7	0.7	0.3	0.6	0.7	0.4	0.3	0.5	0.8	0.6	0.3	1	0.6	0.8	0.9	0.3	0.7	0.6	0.1	0.4	0.4
$\pi$	0.7	0.5	0.7	0.5	0.4	0.2	0.8	0.4	0.4	0.2	0.6	0.7	0.7	0.3	0.6	1	0.6	0.6	0.3	0.7	0.4	0.2	0.4	0.4
$\rho$	0.8	0.5	0.5	0.7	0.6	0.3	0.7	0.7	0.3	0.3	0.5	0.8	0.6	0.3	0.8	0.6	1	0.8	0.3	0.7	0.6	0.2	0.6	0.5
$\sigma$	0.9	0.5	0.6	0.7	0.7	0.3	0.6	0.7	0.2	0.3	0.6	0.8	0.6	0.3	0.9	0.6	0.8	1	0.3	0.7	0.6	0.1	0.6	0.4
$\tau$	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.8	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1	0.3	0.3	0.2	0.3	0.3
$\upsilon$	0.7	0.5	0.7	0.6	0.5	0.3	0.7	0.6	0.4	0.3	0.6	0.7	0.9	0.3	0.7	0.7	0.7	0.7	0.3	1	0.6	0.7	0.6	0.5
$\varphi$	0.6	0.5	0.6	0.6	0.6	0.3	0.4	0.6	0.2	0.2	0.4	0.6	0.5	0.3	0.6	0.4	0.6	0.6	0.3	0.6	1	0.4	0.6	0.3
$\chi$	0.1	0.3	0.7	0.1	0.4	0.1	0.1	0.1	0.2	0.4	0.6	0.5	0.7	0.2	0.1	0.2	0.2	0.1	0.2	0.7	0.4	1	0.6	0.3
$\psi$	0.4	0.6	0.6	0.6	0.6	0.3	0.4	0.4	0.2	0.4	0.6	0.5	0.6	0.6	0.4	0.4	0.6	0.6	0.3	0.6	0.6	0.6	1	0.6
$\omega$	0.5	0.7	0.5	0.7	0.8	0.3	0.4	0.4	0.2	0.4	0.5	0.5	0.5	0.8	0.4	0.4	0.5	0.4	0.3	0.5	0.3	0.3	0.6	1

**R (2):**

	$\alpha$	$\beta$	$\gamma$	$\delta$	$\varepsilon$	$\zeta$	$\eta$	$\theta$	$\iota$	$\kappa$	$\lambda$	$\mu$	$\nu$	$\xi$	$\omicron$	$\pi$	$\rho$	$\sigma$	$\tau$	$\upsilon$	$\varphi$	$\chi$	$\psi$	$\omega$
$\alpha$	1	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.8	0.7	0.7	0.9	0.7	0.8	0.9	0.4	0.7	0.6	0.7	0.6	0.7
$\beta$	0.7	1	0.6	0.7	0.7	0.3	0.5	0.7	0.4	0.4	0.6	0.6	0.6	0.7	0.7	0.5	0.7	0.7	0.4	0.6	0.6	0.6	0.6	0.7

γ	0.7	0.6	1	0.7	0.6	0.3	0.7	0.7	0.4	0.4	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.4	0.7	0.6	0.7	0.6	0.6
δ	0.7	0.7	0.7	1	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.7	0.6	0.6	0.6	0.7
ε	0.7	0.7	0.6	0.7	1	0.3	0.6	0.7	0.4	0.4	0.6	0.7	0.6	0.8	0.7	0.6	0.7	0.7	0.3	0.7	0.6	0.6	0.6	0.8
ζ	0.3	0.3	0.3	0.3	0.3	1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
η	0.7	0.5	0.7	0.7	0.6	0.3	1	0.7	0.4	0.4	0.6	0.7	0.7	0.5	0.7	0.8	0.7	0.7	0.4	0.7	0.6	0.7	0.6	0.5
θ	0.7	0.7	0.7	0.7	0.7	0.3	0.7	1	0.4	0.4	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.7	0.6	0.6	0.6	0.7
ι	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	1	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.8	0.4	0.4	0.4	0.4
κ	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.3	1	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4
λ	0.6	0.6	0.6	0.6	0.6	0.3	0.6	0.6	0.4	0.4	1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6	0.6	0.6	0.6
μ	0.8	0.6	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	1	0.7	0.6	0.8	0.7	0.8	0.8	0.4	0.7	0.6	0.7	0.6	0.6
ν	0.7	0.6	0.7	0.7	0.6	0.3	0.7	0.7	0.4	0.4	0.6	0.7	1	0.6	0.7	0.7	0.7	0.7	0.4	0.9	0.6	0.7	0.6	0.6
ξ	0.7	0.7	0.6	0.7	0.8	0.3	0.5	0.7	0.3	0.4	0.6	0.6	0.6	1	0.7	0.5	0.7	0.7	0.3	0.6	0.6	0.6	0.6	0.8
ο	0.9	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.8	0.7	0.7	1	0.7	0.8	0.9	0.4	0.7	0.6	0.7	0.6	0.7
π	0.7	0.5	0.7	0.7	0.6	0.3	0.8	0.7	0.4	0.4	0.6	0.7	0.7	0.5	0.7	1	0.7	0.7	0.4	0.7	0.6	0.7	0.6	0.5
ρ	0.8	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.8	0.7	0.7	0.8	0.7	1	0.8	0.4	0.7	0.6	0.7	0.6	0.7
σ	0.9	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.8	0.7	0.7	0.9	0.7	0.8	1	0.4	0.7	0.6	0.7	0.6	0.7
τ	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.8	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	1	0.4	0.4	0.3	0.4	0.4
υ	0.7	0.6	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.7	0.9	0.6	0.7	0.7	0.7	0.7	0.4	1	0.6	0.7	0.6	0.6
φ	0.6	0.6	0.6	0.6	0.6	0.3	0.6	0.6	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6	1	0.6	0.6	0.6
χ	0.7	0.6	0.7	0.6	0.6	0.3	0.7	0.6	0.4	0.4	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.3	0.7	0.6	1	0.6	0.6
ψ	0.6	0.6	0.6	0.6	0.6	0.3	0.6	0.6	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6	0.6	0.6	1	0.6
ω	0.7	0.7	0.6	0.7	0.8	0.3	0.5	0.7	0.4	0.4	0.6	0.6	0.6	0.8	0.7	0.5	0.7	0.7	0.4	0.6	0.6	0.6	0.6	1

**R (3):**

	α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο	π	ρ	σ	τ	υ	φ	χ	ψ	ω
α	1	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.8	0.7	0.7	0.9	0.7	0.8	0.9	0.4	0.7	0.6	0.7	0.6	0.7
β	0.7	1	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.7	0.6	0.7	0.6	0.7
γ	0.7	0.7	1	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.7	0.6	0.7	0.6	0.7
δ	0.7	0.7	0.7	1	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.7	0.6	0.7	0.6	0.7



η	0.7	0.7	0.7	0.7	0.7	0.3	1	0.7	0.4	0.4	0.6	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.4	0.7	0.6	0.7	0.6	0.7
θ	0.7	0.7	0.7	0.7	0.7	0.3	0.7	1	0.4	0.4	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.7	0.6	0.7	0.6	0.7
ι	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	1	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.4	0.4	0.4	0.4	0.4
κ	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	1	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
λ	0.6	0.6	0.6	0.6	0.6	0.3	0.6	0.6	0.4	0.4	1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6	0.6	0.6	0.6	0.6
μ	0.8	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	1	0.7	0.7	0.8	0.7	0.8	0.8	0.4	0.7	0.6	0.7	0.6	0.7
ν	0.7	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.7	1	0.7	0.7	0.7	0.7	0.7	0.4	0.9	0.6	0.7	0.6	0.7
ξ	0.7	0.7	0.7	0.7	0.8	0.3	0.7	0.7	0.4	0.4	0.6	0.7	0.7	1	0.7	0.7	0.7	0.7	0.4	0.7	0.6	0.7	0.6	0.8
ο	0.9	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.8	0.7	0.7	1	0.7	0.8	0.9	0.4	0.7	0.6	0.7	0.6	0.7
π	0.7	0.7	0.7	0.7	0.7	0.3	0.8	0.7	0.4	0.4	0.6	0.7	0.7	0.7	0.7	1	0.7	0.7	0.4	0.7	0.6	0.7	0.6	0.7
ρ	0.8	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.8	0.7	0.7	0.8	0.7	1	0.8	0.4	0.7	0.6	0.7	0.6	0.7
σ	0.9	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.8	0.7	0.7	0.9	0.7	0.8	1	0.4	0.7	0.6	0.7	0.6	0.7
τ	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1	0.4	0.4	0.4	0.4	0.4
υ	0.7	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.7	0.9	0.7	0.7	0.7	0.7	0.7	0.4	1	0.6	0.7	0.6	0.7
φ	0.6	0.6	0.6	0.6	0.6	0.3	0.6	0.6	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6	1	0.6	0.6	0.6
χ	0.7	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.7	0.6	1	0.6	0.7
ψ	0.6	0.6	0.6	0.6	0.6	0.3	0.6	0.6	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6	0.6	0.6	1	0.6
ω	0.7	0.7	0.7	0.7	0.8	0.3	0.7	0.7	0.4	0.4	0.6	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.4	0.7	0.6	0.7	0.6	1

**R (3) = R (4) and we can stop.**

**Now assume  $\alpha = 0.55$**

	α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο	π	ρ	σ	τ	υ	φ	χ	ψ	ω
α	0	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.8	0.7	0.7	0.9	0.7	0.8	0.9	0	0.7	0.6	0.7	0.6	0.7
β	0.7	0	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0.7
γ	0.7	0.7	0	0.7	0.7	0	0.7	0.7	0	0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0.7
δ	0.7	0.7	0.7	0	0.7	0	0.7	0.7	0	0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0.7
ε	0.7	0.7	0.7	0.7	0	0	0.7	0.7	0	0	0.6	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0.8
ζ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
η	0.7	0.7	0.7	0.7	0.7	0	0	0.7	0	0	0.6	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0	0.7	0.6	0.7	0.6	0.7

$\theta$	0.7	0.7	0.7	0.7	0.7	0	0.7	0	0	0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0.7	
$\iota$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	
$\kappa$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
$\lambda$	0.6	0.6	0.6	0.6	0.6	0	0.6	0.6	0	0	0	0.6	0.6	0.6	0.6	0.6	0.6	0	0.6	0.6	0.6	0.6	0.6	
$\mu$	0.8	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0	0.7	0.7	0.8	0.7	0.8	0.8	0	0.7	0.6	0.7	0.6	0.7
$\nu$	0.7	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.7	0	0.7	0.7	0.7	0.7	0	0.9	0.6	0.7	0.6	0.7	
$\xi$	0.7	0.7	0.7	0.7	0.8	0	0.7	0.7	0	0	0.6	0.7	0.7	0	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0.8	
$\omicron$	0.9	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.8	0.7	0.7	0	0.7	0.8	0.9	0	0.7	0.6	0.7	0.6	0.7
$\pi$	0.7	0.7	0.7	0.7	0.7	0	0.8	0.7	0	0	0.6	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0.7	0.6	0.7	0.6	0.7
$\rho$	0.8	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.8	0.7	0.7	0.8	0.7	0	0.8	0	0.7	0.6	0.7	0.6	0.7
$\sigma$	0.9	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.8	0.7	0.7	0.9	0.7	0.8	0	0	0.7	0.6	0.7	0.6	0.7
$\tau$	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$\upsilon$	0.7	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.7	0.9	0.7	0.7	0.7	0.7	0.7	0	0	0.6	0.7	0.6	0.7
$\phi$	0.6	0.6	0.6	0.6	0.6	0	0.6	0.6	0	0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0	0.6	0	0.6	0.6	0.6	0.6
$\chi$	0.7	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0	0.7	0.6	0	0.6	0.7	0.7
$\psi$	0.6	0.6	0.6	0.6	0.6	0	0.6	0.6	0	0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0.6	0.6
$\omega$	0.7	0.7	0.7	0.7	0.8	0	0.7	0.7	0	0	0.6	0.7	0.7	0.8	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0	0.7

$I = \{\alpha, \beta, \gamma, \delta, \epsilon, \zeta, \eta, \theta, \iota, \kappa, \lambda, \mu, \nu, \xi, \omicron, \pi, \rho, \sigma, \tau, \upsilon, \phi, \chi, \psi, \omega\}$

$C = \{\}$

## Step 1

Max is 0.9 and  $a_{1,15}$  is randomly selected

$C1 = \{\alpha, \omicron\}$   $I = \{\beta, \gamma, \delta, \epsilon, \zeta, \eta, \theta, \iota, \kappa, \lambda, \mu, \nu, \xi, \pi, \rho, \sigma, \tau, \upsilon, \phi, \chi, \psi, \omega\}$

There is no maximum later and we have to go to the next cluster.

## Step 2

$C2 = \{\sigma\}$

There is no maximum later and we have to go to the next cluster.

## Step 3

Max is 0.9 and  $a_{13,20}$  is randomly selected

$C3 = \{\nu, \upsilon\}$   $I = \{\beta, \gamma, \delta, \epsilon, \zeta, \eta, \theta, \iota, \kappa, \lambda, \mu, \xi, \pi, \rho, \tau, \phi, \chi, \psi, \omega\}$

**There is no maximum later and we have to go to the next cluster.**

## **Step 4**

**$C4 = \{\mu\}$**

**There is no maximum later and we have to go to the next cluster.**

## **Step 5**

**$C5 = \{\rho\}$**

**There is no maximum later and we have to go to the next cluster.**

## **Step 6**

**Max is 0.8 and  $a_{5,14}$  is randomly selected**

**$C6 = \{\epsilon, \xi\}$   $I = \{\beta, \gamma, \delta, \zeta, \eta, \theta, \iota, \kappa, \lambda, \pi, \tau, \phi, \chi, \psi, \omega\}$**

**There is no maximum later and we have to go to the next cluster.**

## **Step 7**

**$C7 = \{\omega\}$**

**There is no maximum later and we have to go to the next cluster.**

## **Step 8**

**Max is 0.8 and  $a_{7,16}$  is randomly selected**

**$C8 = \{\eta, \pi\}$   $I = \{\beta, \gamma, \delta, \zeta, \theta, \iota, \kappa, \lambda, \tau, \phi, \chi, \psi\}$**

**There is no maximum later and we have to go to the next cluster.**

## **Step 9**

**Max is 0.8 and  $a_{9,19}$  is randomly selected**

**$C9 = \{\iota, \tau\}$   $I = \{\beta, \gamma, \delta, \zeta, \theta, \kappa, \lambda, \phi, \chi, \psi\}$**

**There is no maximum later and we have to go to the next cluster.**

## **Step 10**

**$C10 = \{\beta\}$**

**There is no maximum later and we have to go to the next cluster.**

## **Step 11**

**$C11 = \{\gamma\}$**

**There is no maximum later and we have to go to the next cluster.**

## **Step 12**

$$C12 = \{\delta\}$$

There is no maximum later and we have to go to the next cluster.

## Step 13

$$C13 = \{\theta\}$$

There is no maximum later and we have to go to the next cluster.

## Step 14

$$C14 = \{\chi\}$$

There is no maximum later and we have to go to the next cluster.

## Step 15

$$C15 = \{\lambda\}$$

There is no maximum later and we have to go to the next cluster.

## Step 16

$$C16 = \{\varphi\}$$

There is no maximum later and we have to go to the next cluster.

## Step 17

$$C17 = \{\psi\}$$

There is no maximum later and we have to go to the next cluster.

## Step 18

$$C18 = \{\zeta\}$$

There is no maximum later and we have to go to the next cluster.

## Step 19

$$C19 = \{\kappa\}$$

There is no maximum later and we have to go to the next cluster.

## Answer

$$C1 = \{\alpha, o\}$$

$$C2 = \{\sigma\}$$

$$C3 = \{v, u\}$$

$$C4 = \{\mu\}$$

$$C5 = \{\rho\}$$

$$C6 = \{\epsilon, \xi\}$$

$$C7 = \{\omega\}$$



$$\mathbf{C8} = \{\eta, \pi\}$$

$$\mathbf{C9} = \{\mathbf{l}, \tau\}$$

$$\mathbf{C10} = \{\beta\}$$

$$\mathbf{C11} = \{\gamma\}$$

$$\mathbf{C12} = \{\delta\}$$

$$\mathbf{C13} = \{\theta\}$$

$$\mathbf{C14} = \{\chi\}$$

$$\mathbf{C15} = \{\lambda\}$$

$$\mathbf{C16} = \{\varphi\}$$

$$\mathbf{C17} = \{\psi\}$$

$$\mathbf{C18} = \{\zeta\}$$

$$\mathbf{C19} = \{\kappa\}$$

**a = 0.4**

**R (1):**

[illegible]





$\chi$	0.7	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.4	0.4	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.7	0.6	1	0.6	0.7
$\psi$	0.6	0.6	0.6	0.6	0.6	0.3	0.6	0.6	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6	0.6	0.6	1	0.6
$\omega$	0.7	0.7	0.7	0.7	0.8	0.3	0.7	0.7	0.4	0.4	0.6	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.4	0.7	0.6	0.7	0.6	1

**R (4):**

[illegible]

$\omega$	0.7	0.7	0.7	0.7	0.8	0.3	0.7	0.7	0.4	0.4	0.6	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.4	0.7	0.6	0.7	0.6	1
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**R (3) = R (4) and we can stop.**

**Now assume  $\alpha = 0.55$**

	$\alpha$	$\beta$	$\gamma$	$\delta$	$\varepsilon$	$\zeta$	$\eta$	$\theta$	$\iota$	$\kappa$	$\lambda$	$\mu$	$\nu$	$\xi$	$\omicron$	$\pi$	$\rho$	$\sigma$	$\tau$	$\upsilon$	$\varphi$	$\chi$	$\psi$	$\omega$
$\alpha$	0	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.8	0.7	0.7	0.9	0.7	0.8	0.9	0	0.7	0.6	0.7	0.6	0.7
$\beta$	0.7	0	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0.7
$\gamma$	0.7	0.7	0	0.7	0.7	0	0.7	0.7	0	0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0.7
$\delta$	0.7	0.7	0.7	0	0.7	0	0.7	0.7	0	0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0.7
$\varepsilon$	0.7	0.7	0.7	0.7	0	0	0.7	0.7	0	0	0.6	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0.8
$\zeta$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$\eta$	0.7	0.7	0.7	0.7	0.7	0	0	0.7	0	0	0.6	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0	0.7	0.6	0.7	0.6	0.7
$\theta$	0.7	0.7	0.7	0.7	0.7	0	0.7	0	0	0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0.7
$\iota$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0
$\kappa$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$\lambda$	0.6	0.6	0.6	0.6	0.6	0	0.6	0.6	0	0	0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0	0.6	0.6	0.6	0.6	0.6
$\mu$	0.8	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0	0.7	0.7	0.8	0.7	0.8	0.8	0	0.7	0.6	0.7	0.6	0.7
$\nu$	0.7	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.7	0	0.7	0.7	0.7	0.7	0.7	0	0.9	0.6	0.7	0.6	0.7
$\xi$	0.7	0.7	0.7	0.7	0.8	0	0.7	0.7	0	0	0.6	0.7	0.7	0	0.7	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0.8
$\omicron$	0.9	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.8	0.7	0.7	0	0.7	0.8	0.9	0	0.7	0.6	0.7	0.6	0.7
$\pi$	0.7	0.7	0.7	0.7	0.7	0	0.8	0.7	0	0	0.6	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0.7	0.6	0.7	0.6	0.7
$\rho$	0.8	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.8	0.7	0.7	0.8	0.7	0	0.8	0	0.7	0.6	0.7	0.6	0.7
$\sigma$	0.9	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.8	0.7	0.7	0.9	0.7	0.8	0	0	0.7	0.6	0.7	0.6	0.7
$\tau$	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$\upsilon$	0.7	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.7	0.9	0.7	0.7	0.7	0.7	0.7	0	0	0.6	0.7	0.6	0.7
$\varphi$	0.6	0.6	0.6	0.6	0.6	0	0.6	0.6	0	0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0	0.6	0	0.6	0.6	0.6
$\chi$	0.7	0.7	0.7	0.7	0.7	0	0.7	0.7	0	0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0	0.7	0.6	0	0.6	0.7
$\psi$	0.6	0.6	0.6	0.6	0.6	0	0.6	0.6	0	0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0.6
$\omega$	0.7	0.7	0.7	0.7	0.8	0	0.7	0.7	0	0	0.6	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0	0.7	0.6	0.7	0.6	0

$I = \{\alpha, \beta, \gamma, \delta, \epsilon, \zeta, \eta, \theta, \iota, \kappa, \lambda, \mu, \nu, \xi, \omicron, \pi, \rho, \sigma, \tau, \upsilon, \phi, \chi, \psi, \omega\}$   
 $C = \{\}$

## Step 1

Max is 0.9 and  $a_{1,15}$  is randomly selected

$C_1 = \{\alpha, \omicron\}$   $I = \{\beta, \gamma, \delta, \epsilon, \zeta, \eta, \theta, \iota, \kappa, \lambda, \mu, \nu, \xi, \pi, \rho, \sigma, \tau, \upsilon, \phi, \chi, \psi, \omega\}$

There is no maximum later and we have to go to the next cluster.

## Step 2

$C_2 = \{\sigma\}$

There is no maximum later and we have to go to the next cluster.

## Step 3

Max is 0.9 and  $a_{13,20}$  is randomly selected

$C_3 = \{\nu, \upsilon\}$   $I = \{\beta, \gamma, \delta, \epsilon, \zeta, \eta, \theta, \iota, \kappa, \lambda, \mu, \xi, \pi, \rho, \tau, \phi, \chi, \psi, \omega\}$

There is no maximum later and we have to go to the next cluster.

## Step 4

$C_4 = \{\mu\}$

There is no maximum later and we have to go to the next cluster.

## Step 5

$C_5 = \{\rho\}$

There is no maximum later and we have to go to the next cluster.

## Step 6

Max is 0.8 and  $a_{5,14}$  is randomly selected

$C_6 = \{\epsilon, \xi\}$   $I = \{\beta, \gamma, \delta, \zeta, \eta, \theta, \iota, \kappa, \lambda, \pi, \tau, \phi, \chi, \psi, \omega\}$

There is no maximum later and we have to go to the next cluster.

## Step 7

$C_7 = \{\omega\}$

There is no maximum later and we have to go to the next cluster.

## Step 8

Max is 0.8 and  $a_{7,16}$  is randomly selected

$C_8 = \{\eta, \pi\}$   $I = \{\beta, \gamma, \delta, \zeta, \theta, \iota, \kappa, \lambda, \tau, \phi, \chi, \psi\}$

There is no maximum later and we have to go to the next cluster.

## Step 9

Max is 0.8 and a<sub>9,19</sub> is randomly selected

$C_9 = \{\iota, \tau\}$   $I = \{\beta, \gamma, \delta, \zeta, \theta, \kappa, \lambda, \phi, \chi, \psi\}$

There is no maximum later and we have to go to the next cluster.

## Step 10

$C_{10} = \{\beta\}$

There is no maximum later and we have to go to the next cluster.

## Step 11

$C_{11} = \{\gamma\}$

There is no maximum later and we have to go to the next cluster.

## Step 12

$C_{12} = \{\delta\}$

There is no maximum later and we have to go to the next cluster.

## Step 13

$C_{13} = \{\theta\}$

There is no maximum later and we have to go to the next cluster.

## Step 14

$C_{14} = \{\chi\}$

There is no maximum later and we have to go to the next cluster.

## Step 15

$C_{15} = \{\lambda\}$

There is no maximum later and we have to go to the next cluster.

## Step 16

$C_{16} = \{\phi\}$

There is no maximum later and we have to go to the next cluster.

## Step 17

$C_{17} = \{\psi\}$

There is no maximum later and we have to go to the next cluster.

## Step 18

$$C18 = \{\zeta\}$$

There is no maximum later and we have to go to the next cluster.

## Step 19

$$C19 = \{\kappa\}$$

There is no maximum later and we have to go to the next cluster.

## Answer

$$C1 = \{\alpha, o\}$$

$$C2 = \{\sigma\}$$

$$C3 = \{v, u\}$$

$$C4 = \{\mu\}$$

$$C5 = \{\rho\}$$

$$C6 = \{\epsilon, \xi\}$$

$$C7 = \{\omega\}$$

$$C8 = \{\eta, \pi\}$$

$$C9 = \{i, \tau\}$$

$$C10 = \{\beta\}$$

$$C11 = \{\gamma\}$$

$$C12 = \{\delta\}$$

$$C13 = \{\theta\}$$

$$C14 = \{\chi\}$$

$$C15 = \{\lambda\}$$

$$C16 = \{\varphi\}$$

$$C17 = \{\psi\}$$

$$C18 = \{\zeta\}$$

$$C19 = \{\kappa\}$$